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Circuit for the Use of a D. C. Operational S/119/61/000/001/003/013
Amplifier for the Multiplication of Variables H019/B067

closed by square-topped pulses. With positive pulses the input resistor is earthed in the center. Thus, the transfer coefficient of the amplifier is zero, with negative pulses it is finite. If the reciprocal of the pulse duty factor of the square-topped pulses corresponds to the second multiplicand, the output voltage is equivalent to the product of input voltage and the reciprocal of the pulse duty factor. The conservation of strict proportionality of the amplifier coefficient and the block diagram of a multiplication circuit shown in Fig. 2 are then discussed. The circuit is an electronic equivalent to a servosystem. It contains a group of operational amplifiers which are equivalent to the potentiometers of a servosystem. It allows the multiplication of two arbitrary input voltages. Under the supervision of senior designer V. B. Ushakov, Doctor of Technical Sciences, a simulator was developed at the otdel elektricheskogo modelirovaniya NII Schetmasha (Branch for Electrical Simulation of the NII Schetmash). And. c. operational amplifier was used for the multiplication of a quantity which was variable from zero to a certain positive value, by nine different quantities. This operational amplifier contained two transformation blocks of types I and II. The

Card 2/4

Circuit for the Use of a D. C. Operational S/119/61/000/001/003/013

Amplifier for the Multiplication of Variables B019/B067

circuits of these types are shown in Figs. 3 and 4. Type I is a d. c. amplifier with triode keys at the input circuit. Type II consists of a direct current d. c. amplifier, a sawtooth generator and a Schmidttrigger. In Fig. 2 type I corresponds to the amplifiers y₁,y₂,····y_n,

type II to NO and BM. Engineers L. V. Achkasova, N. F. Bushko, and T. L. Solov'yeva took part in the investigations. There are 5 figures and 4 references: 3 Soviet and 1 US.

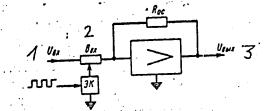
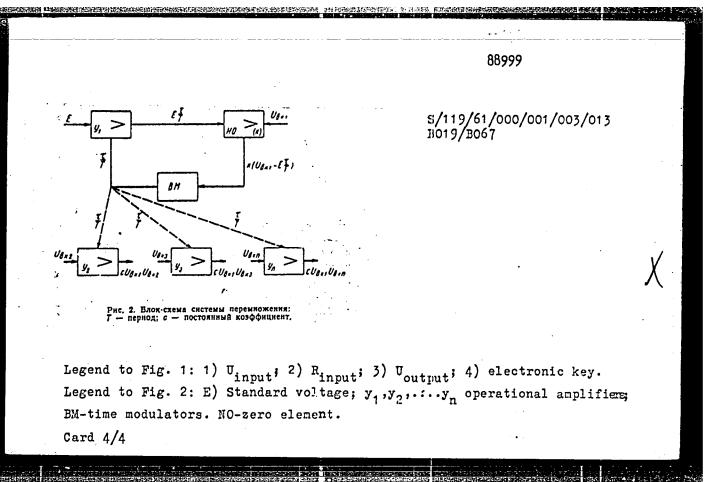


Рис. 1. Структурная схема усилителя с переменным коэффициентом передачи: R_{oc} — сопротивление обратной связи.

Card 3/4



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VITENBERG, I.M., kand.tekhn.nauk; GINZBURG, S.A., kand.tekhn.nauk; Gornshteyn, V.M., kand.tekhn.nauk Use of an electronic simulating device in calculating the efficiency of operation of power systems with hydroelectric power stations. Trudy VNIIE no.8:233-242 159.

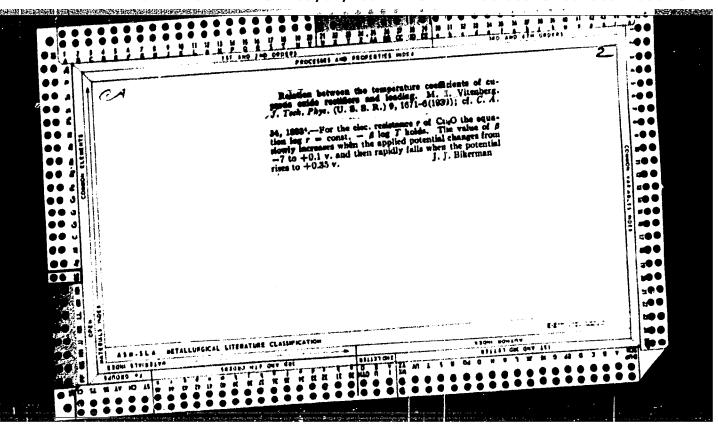
(Hydroelectric power stations) (Electric power)

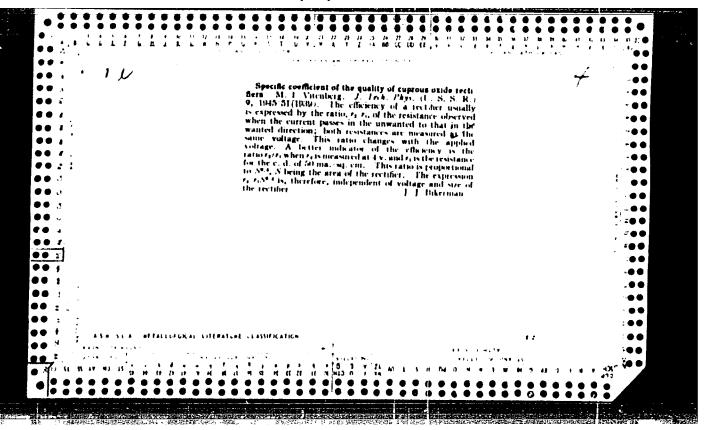
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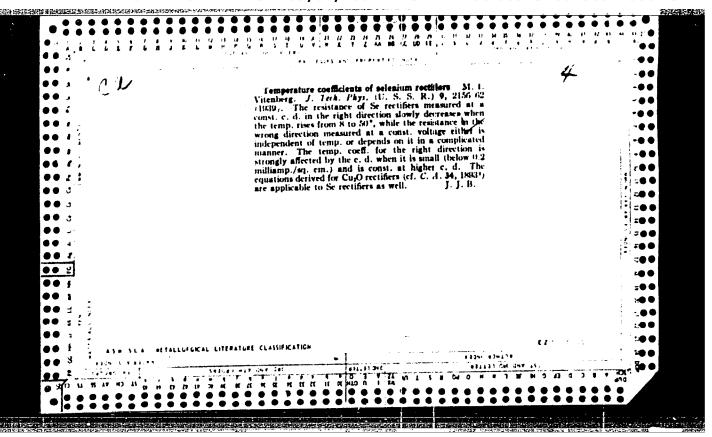
VITENBERG, I.M.

Designing specialized electronic analog computers for controlling technological processes. Priborostroenie no.12:11-13 D '61, (MIR: 14:12)

(Electronic analog computers)







VITEN	BERG, M.I.
VITHH	III, I. J. Dogent.
	"DC Inductance of Relays". Vol 6, No. 2,
	Avtomatika i Telemekhanika, No. 2, 3, h, ', (1951).
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"Time Constant for Code Relats". (ol. 4, To. 2, Avtomatika i Telemeklanika, To. 2, 3, h, 5, (19km).

"Honograms for the Valculation of Telegione colay windings," Vol. 4, No. 3.

"vtomatika i Telekkanika, No. 2, h, 3, 5, (19h1).

"Effect of the Capacity on the Working Time of a Telephone Relay."

[Sci R.s Inst of MPSS - Min Prom Sredst Suysri 37]

Avto i Tele, 9, 5, 1948.

VITENEERG, Hoisey Exallevich; BERGMAN, P.Ya., redaktor; MIKHAYLOYA, Ye.M., tekhnicheskiy redaktor

[Computation for electromagnetic relays of automatic control and telecommunication systems] Raschet elektromagnitnykh rele dlia telecommunication systems] Raschet elektromagnitnykh rele dlia telecommunication systems] Moskva, Gos. energ. izd-vo, 1956. apparatury avtomatiki i eviazi. Moskva, Gos. energ. izd-vo, 1956. (MIRA 9:9)

164 p. (Alectric relays)

VITENBERG, M. I.

PA 22T46

USSR/Ingineering Relays Curves

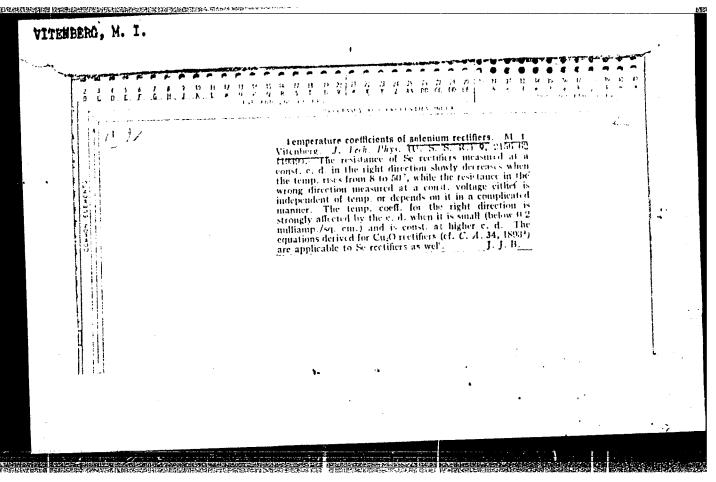
Jan 1947

"Time-Lag Curves for Electromagnetic Relays," M. I. Vitenberg, 4 pp

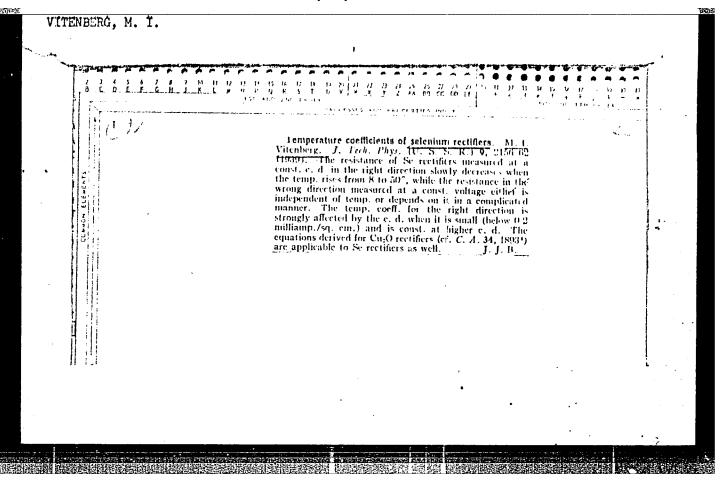
"Avtomat i Telemekh" Vol VIII, No 1

Explains the statement that the time-lag of electromagnetic relays can be defined graphically by calculating the time-lag with reference to a coefficient "m," determined by the number of ampere turns.

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			Fin (see (lays, "h," 1 X
			s, (Contd) Jan/Feb 51 Finally, derives com- se time for various nat it is more con- lays with shortened relays as series re- 8; resubmitted 5 May 50	
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VITENBERG, Moisey Izrailevich; ZEIIGER, N.B., prof., retsenzent;

ARONOVICH, B.I., dots., retsenzent; USSER, A.S., red.; SOBOLEVA,
Ye.M., tekhm. red.

[Design of electromagnetic relays for automatic control and communication apparatus] Raschet elektromagnitnykh rele dlia apparamunication apparatus] Raschet elektromagnitnykh rele dlia appar

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Val'dner, O.A. and Vitenberg, I.M.

AUTHORS: An electrical model of a linear accelerator

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.4, pp.25-26

In view of the increasing number of electron accelerators which are either being built or are being designed, it is TEXT: desirable to evolve methods for the preliminary calculation of the beam parameters. From this point of view the machines can be divided into two groups, namely, those with a working energy of less than 30 MeV and those above this energy. Design calculations and the second control of less than 30 MeV and those above this energy. tions carried out at MNQN (MIFI) showed that in order to ensure the necessary beam parameters all the accelerators belonging to the second group can be discussed in terms of the same solution describing the electron dynamics during the acceleration process. The situation is different in the case of the first group, i.e. in the case of low energies. The electron dynamics in linear accelerators of this type can be described by the following equations:

Card 1/13

An electrical model of a linear ...

S/120/61/000/004/001/034 E032/E514

$$\frac{d\gamma}{d\xi} = A(\xi) \sin \varphi,$$

$$\frac{d\varphi}{d\xi} = 2\pi \left[\frac{1}{\beta_B(\xi)} - \frac{1}{\beta_2} \right],$$
(1)

$$\gamma = (1 - \beta_{\frac{3}{2}}^2)^{-1/2}$$

where φ is the phase angle of the particle relative to the wave and γ , ξ , A, β_B and β_B are the dimensionless energy, linear coordinate, electric field amplitude, wave velocity and electron velocity, respectively. This equation can only be solved by numerical integration. It is, therefore, interesting to produce an electrical model for this set of equations. A model is particularly useful if the electron energy is to be adjustable. The search for acceptable solutions can be reduced to the selection of functions describing changes in the accelerating wave amplitude

An electrical model of a linear ... 5/120/61/000/004/001/034 E032/E514

and the phase velocity along the accelerator. authors have developed special apparatus which can be used to investigate phase oscillations and the output beam parameters for different forms of A and $\beta_{\rm B},$ the stability of the beam parameters and the capture into the acceleration process under different working conditions. The figure shows the circuit employed. In electrical modelling the integration time represents the dimensionless accelerator length. The func $\alpha_B = \beta_B^{-1}(\xi)$ and $\alpha_{\gamma} = \beta_{\gamma}^{-1}(\gamma)$ are generated by the non-linear The functions units EH1 (BN2) and EH3 (BN3). A detailed description of this circuit is not given except that 5% (SU1) is an adding amplifier and N/3 (IUZ) is an integrating amplifier. trajectories obtained with this apparatus can be inspected visually on the screen of a CRO or photographed. Acknowledgments are expressed to A. V. Shal'nov, I. K. Ogorodova and Yu. V. Ogorodov. There is I figure.

SUBMITTED:

December 13, 1960

Card 3/1 3

WITENBERG, M.I. (Leningrad) Effect of ambient temperature on the overheating of the windings and the heat-transfer coefficient of a relay. Avtom. i telem. 21 no.3:384-392 Mr 160. (Electric relays)

9.2140

78168

SOV/103-21-3-14/21

AUTHOR:

Vitenberg, M. I. (Leningrad)

TITLE:

Dependence of the Winding Overheat and the Heat Exchange Coefficient of a Relay on the Temperature

of Surrounding Air

PERIODICAL:

Avtomatika i telemekhanika 1960, Vol 21, Nr 3.

pp 384-392 (USSR)

ABSTRACT:

The winding overheat and the heat exchange coefficient are investigated as functions of the ambient temperature for three types of Soviet

relays: type PMY (RMU), dimensions 24.7 x 38.5 x 41 mm, weight 70 g; type P3 C 10 (RES10), dimensions

11.1 x 16.5 x 26 mm, weight 6 g; and type PKH (RKN), dimensions 25.6 x 56.5 x 97 mm, weight 290 g. Curves are given showing the excess of winding temperature above the ambient temperature as function of the applied power. This plot

as function of the applied power. This plot is obtained experimentally for the RMU-type relay at various temperatures of surrounding air of up

Card 1/4

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Dependence of the Winding Overheat and the Heat Exchange Coefficient of a Relay on the Temperature of Surrounding Air

78168 SOV/103-21-3-14/21

to 141° C. Based on this plot the general expression for the temperature of overheating of relay winding is derived as function of the applied power and of the ambient temperature:

The second of the second secon

$$\vartheta = a_0 - c\theta_0 + (b_0 - d\theta_0) P. \tag{4}$$

Here, P and θ are power and ambient temperature, respectively; a_0 , b, c, and d are parameters given in curve form. Because of the difficulty of determining the parameters a_0 , b_0 , c, and d for each type of relay, the winding overheat is determined as a function of various ambient temperatures at a constant value of applied power. Assuming that the initial ambient temperature equals 20°C, the following expression is given for the

Card 2/4

Dependence of the Winding Overheat and the Heat Exchange Coefficient of a Relay on the Temperature of Surrounding Air 78168 8**0V/1**03-21-3-14/21

overheating temperature θ_{o2} ; above the actual

 $\theta_2 \approx \theta_1 [1 - 0.00198 (\theta_{02} - 20)].$ (7a)

where $oldsymbol{N}_1$ is the initial temperature of overheating. In order to determine the dependence of the heat exchange coefficient of the winding on the temperature, a plot of average values of the heat exchange coefficient is made as a function of the temperature of the winding. Based on this experimentally obtained plot and assuming that the initial external temperature equals 50°C, the following expression for the heat exchange coefficient

Card 3/4

Dependence of the Winding Overheat and the Heat Exchange Coefficient of a Relay on the Temperature of Surrounding Air 78168 SOV/103-21-3-14/21

is given:

 $q_2 \approx q_1[1 + 0.00306(\theta_2 - 50)].$

(13a)·

where \mathbf{q}_1 and \mathbf{q}_2 are initial and actual values of coefficient, respectively. Two examples illustrate the use of the empirical equations given. There are 8 figures; and 1 Soviet reference.

SUBMITTED:

November 30, 1959

Card 4/4

SOY/103-19-11-5/10 Vitenberg, M. I., (Leningrad) AUTHOR:

Determination of the Heating of Electromagnetic TITLE:

Relay Windings (Opredeleniye nagreva obmotok elektro-

magnitnyth rele)

Avtomatika i telemekhanika, 1958, Vol 19, Nr 11, PERIODICAL:

pp 1036 - 1047 (USSR)

In each individual case, the exact value of the mean ABSTRACT:

coefficient of heat dissipation can be determined by experimental means only. It has hitherto been given

by the most authors only within the range from

 $0.9.10^{-3}$ to $1.4.10^{-3}$ W/cr².°C. The results of experiments

have shown, however, that in computing the heat values

of the mean coefficients of heat dissipation for

small-sized relays these values involve great errors and are therefore useless. For small-sized relays this coefficient is of a considerably greater value. To investigate this problem, measurements were carried out

on about 100 different electromagnetic relays provided

with an exterior rotor ammature, as well as on 5 types card 1/3

CIA-RDP86-00513R001860120004-9" APPROVED FOR RELEASE: 09/01/2001

Determination of the Heating of Electromagnetic Relay SCV/103-13-11-5/10 Windings

of such relays of various size, and on 3 large coreless coils. Based on these experiments it is shown that the degree to which the mean coefficient of heat dissipation depends on the cooling surface can be expressed within the limits from $1 < s_k < 100 \text{ cm}^2$ by formula (5) and in the limits from 100 < S_k < 5000 cm² by formula (6), respectively. Two limiting cases have been investigated. The characteristic curves obtained showed that in computing it is most precise to consiler as $coolin_{\vec{\theta}}$ surface the sum of the cylindrical exterior and interior surfaces of the relay coils. \mathbf{S}_k - cooling surface of the coil in the calculation. The conception of the specific temperature superelevation of the winding is introduced. This conception characterizes the relay design from the standpoint of heat discipation. To determine the temperature superelevation of the winding and the heating time constants as a function of the cooling surface, and the weight and dimensions of the relay, approximate formulae are also given.

Card 2/3

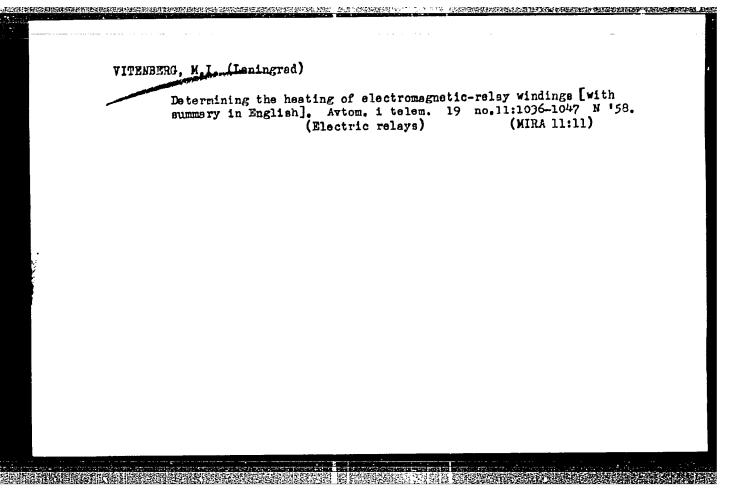
Determination of the Heating of Electromagnetic Relay SCV/103-19-11-5/10 Windings

There are 11 figures and 7 references, 6 of which

arc Soviet.

SUBMITTED: June 19, 1957

Card 3/3



. VITENBERG, M. I.

Vremia otpushkaniia rele pri impul'snom rezhime raboty. (Avtomatika i telemekhanika, 1951, v. 12, no. 1, p. 61-67, diagrs., bibliography)

Title tr.: Release time in pulse-operated relays.

TJ213.A453 1951

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

VITENBERG, M.

AUTHOR:

Not Given.

PA - 2021

TITLE:

New Books.

PERIODICAL: B

Radiotekhnika, 1957, Vol 12, Nr 1, p 81 (U.S.S.R.)

Received: 2 / 1957

Reviewed: 3 / 1957

ABSTRACT:

M.I.VITENBERG: Computation of electromagnetic relays for apparatus of automation and communication. Gosenergoizdat, M.L.1956, 464

pages, price 14.50 roubles.

Theory and computation of the electromagnetic relays of paralleland alternating current for apparatus of automation and communication. Analytical and graphoanalytical methods of computations, constructions, test data. The book is destined to be used by engineers and technical engineers.

M.P.KAPLANOV, V.A.LEVIN: The automatic foundation of frequency, 2.en-larged edition. Gosenergoizdat, M.L. 1956, 200 pages, price 11.50 roubles.

Description and classification. Computation formulae for construction. The book is for radio specialists and advanced university students.

The Successes attained by Electrovacuum Engineering, edited by Profu G.A.TJAGUNOV, L.M.Gosenergoizdet, 1956, 256 pages, price 10.25 roubles. A collection of articles on the types, computation methods, properties, and physical phenomena of some new types of electrovacuum de-

Card 1/2

New Books.

PA - 2021

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vices. For students, university professors, and engineers.

F.V.MAJOROV: Electron Regulators. M. Gosenergoizdat, 1956, 492 pages, price 14.20 roubles.

Elements and assemblies of electron regulators with uninterrupted and discrete effect as well as practical schemes.

P.V.SAHAROV: Technology of apparatus construction. Vol 1. Special features of electro-apparatus construction. Technology of current-carrying parts and magnetic conductors. M-L-Gosenergoizdat, 1956, 315 pages, price 7.85 roubles. Construction, technical production.

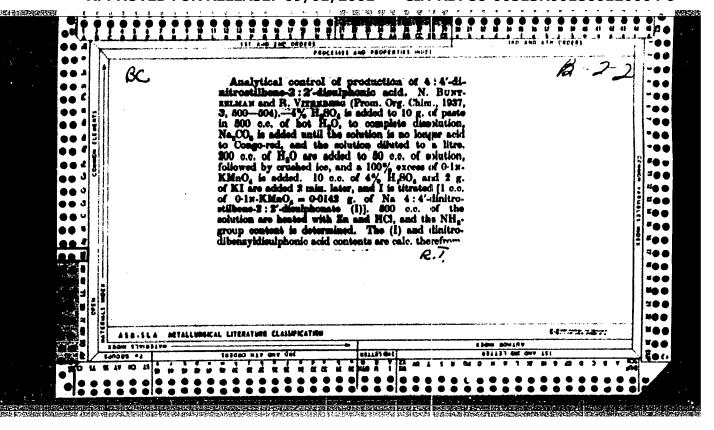
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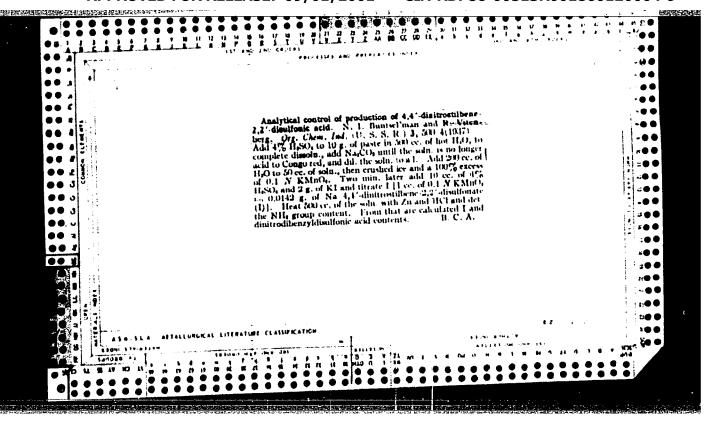
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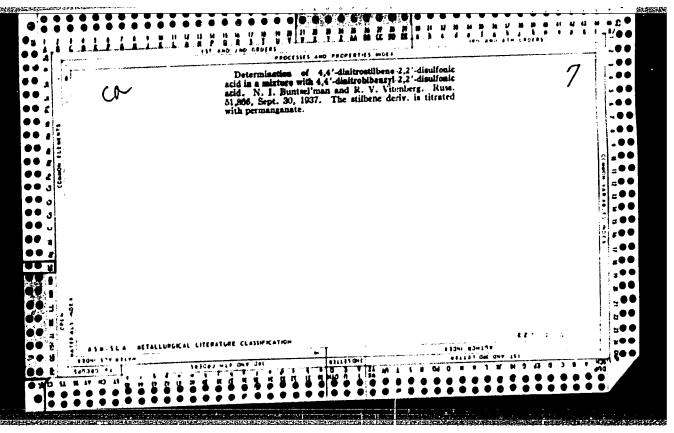
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Card 2/2







GEL'CHINSKIY, M.L.; DEMAT, M.P.; RYAPOLOV, A.F.; TOKAREV, K.K.; CHIZHOVA, A.N.; MEDRIGAYLOV, V.G.; VITENBERG, V.I.; KELLER, Ya.K.; KOLOSOV, S.N.; MAKOVITSKIY, B.K.

Drum-pattern for erecting metal towers made of enlarged blocks. Rats. i izobr. predl. v stroi. no.119:27-29 '55. (MIRA 9:7) (Tevers)

REPRESENTATION PROCESSES CONTROLLED CONTROL CO

ROMANOV, M.A.; VITENBERG, Ya, L.

Performance of asynchronous motors in airplanes cirucits.

Sam.elektr. no.1:3-20 '60. (MIRA 14:3)

(Airplanes—Electric equipment)

Three-phase electric motor for work under difficult conditions. Vest. elektroprom. 18 no.1-2:7-10 '47. (MIRA 6:12) 1. Mavod "Dinamo" im. S.M.Kirova. (Miectric motors, Induction)

USSR/Electric Machinery Jan-Feb 1947 Motors
"Electric Motors Using Three-Phase Current for Heavy Operating Conditions," Ya L Vitenberg, 3 pp
"Vestnik Klek Prom" Vol XVIII, No 1-2
Cross-section diagrams, graphs and tabular operating data
1764

PHASE I BOOK EXPLOITATION SOV/4414

- Samoletnoye elektrooborudovaniye; sbornik statey, No 1 (Aircraft Electric Equipment; Collection of Articles, No 1). Moscow, Oborongiz, 1960. 106 p. Errata slip inserted. 3,600 copies printed.
- General Ed.: A. F. Fedoseyev, Candidate of Technical Sciences; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: V. P. Rozhin; Managing Ed.: A. S. Zaymovskaya, Engineer.
- PURPOSE: This book is intended for engineers engaged in designing and operating aircraft electric equipment. It may also be of interest to those working in the electrical industry, and to teachers, instructors and students in electrical engineering schools of higher and secondary education.
- COVERAGE: The book is a collection of 9 articles dealing with problems in designing, calculating and operating aircraft electric equipment, and electric motors, regulators, instruments, etc. The uses of heat-resistant coatings and

Card 1/3

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860120004-9"

Aircraft Electric Equipment (Cont.) SOV/4414	
electric-insulating materials are discussed. No person- alities are mentioned. References follow the article by Gomel'skaya and Yasin.	
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AVAILABLE: Library of Congress	/
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CHEKMAREV, A.I.; MIKHEL', M.L.; KRONGAUZ, I.A.; VITENBERG, Ye.M.;
BABUSHKINA, S.I., red.; KHORAS, L.I., red.

[Packing materials for chemicals] Tara dlia khimicheskikh
produktov. Moskva, Nauchno-isal.in-t tekhniko-ekon.isal.,
1960. 229 p.

(Chemicals) (Packing for shipment)

(Chemicals) (Packing for shipment)

AND THE PROPERTY OF THE PROPER

VITENberg, Ye. M.

PHASE I BOOK EXPLOITATION

sov/4657

Chekmarev, A. I., M. L. Mikhel', I. A. Krongauz, and Ye. M. Vitenberg

Tara dlya khimicheskikh produktov (Containers for Chemical Products)
Moscow, Nauchno-issl. in-t tekhniko-ekon. issled., 1960. 230 p.
2,000 copies printed.

Sponsoring Agency: Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii.

Eds: I. A. Krongauz; S. I. Babushkina, and L. I. Rhoras.

PURPOSE: This book is intended as a guide for all engineering, technical, and planning workers concerned with the packing and shipping of chemical products.

COVERAGE: The book discusses the design, manufacture, and utilization of all types of containers for chemical products. It includes technical data of a nature to permit the proper choice of a container in a given situation. New types of containers developed in the Soviet Union, as well as foreign experience, are described. The letter designations for

Cald 1/5

all such containers are listed. No personalities	
There are 50 references: 20 Soviet, 19 English,	are mentioned. and 11 German.
ABLE OF CONTENTS:	
introduction .	5
etal Containers	11
1. Metal barrels	11
2. Steel drums	39 55 64
3. Steel flasks	55
4. Large steel cans and canisters	64
5. Small steel cans	71
6. Steel cylinders	74
Jooden Containers	80
1. Wooden barrels	80
2. Pressed plywood barrels	92
New and improved kinds of barrels	97
art 2/5	

TO THE THE PERSONAL PROPERTY OF THE PERSON O

TEPLITSKIY, B.M.; VITENBERG, Yu.k., kand. tekhn. nauk, retsenzent; LEYKIKA, T., red.; KUREFINA, G.N., red.

[Dividing heads and their use] Delitel'nye golovki i rabota na nikh. Moskva, Mashinostroenie, 1964. 215 p. (MIRA 17:8)

, villabata, kulturun

S/121/61/000/008/006/006 D041/D113

AUTHOR:

None given

TITLE:

Dissertations

PERIODICAL: Stanki i instrument, no. 8, 41-42

TEXT: V.P. Grechin presented the dissertation "Heat Resistance and Other Wear Resistance Factors of Cast Iron and Alloys During Sliding Friction" at the Institut mekhaniki Akademii nauk USSR (Institute of Mechanics of the Academy of Sciences Ukrainskaya SSR) in order to obtain a doctor's degree. The following dissertation were presented for a candidate's degree: "Investigation of Small-Module Gear-Shapers" by Yu.R. Vitenberg at the Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics); "The Effect of the Structural and Technological Factors of Spot-Welded and Seam-Welded Joints on the Distribution of Stress Caused by Load and on the Fatigue Strength" by B.B. Zolotarev at the TsNII tekhnologii i mashinostroyeniya (TsNII of Technology and Machine Building); "Investigation of Screw-Nut Pairs During Rolling and Sliding" by Kumar Basu Sushil at the Moskovskiy stankoinstrumental'nyy institut im. I.V. Stalina (Moscow Institute of Machine Tools and Instruments im. I.V. Card 1/2

。 1918年代第16年(1918年) 1918年代

S/121/61/000/008/006/006 D041/D113

Dissertations

Stalin); "Investigation of the Surface Accuracy and Smoothness Obtained by Machining Hard and Brittle Materials Using the Ultra-Sound Vibrations Method" by A.Ya. Vladimirov at the Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics); "Effect of Some Technological Factors on the Surface Quality Obtained by Plane Grinding by Means of the Disc Periphery" by B.B. Troitskiy at the Moskovskiy stanko-instrumental nyy institut imeni I.V. Stalina (Moscow Institute of Machine Tools and Instruments im. I.V. Stalin); "Investigation of the Automatic Synchronization of Gear Changing" by I.M. Khovanov at the Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni Vyssheye tekhnicheskoy uchilishche im. N.E. Baumana (Moscow "Order of Lenin and Order of the Red Banner of Labor" Higher Technical School im. N.E. Bauman); "Investigation of a Grinding Process with an Oscillating Motion" by Tsão Shih-Shen at the Moskovskiy avtomechanicheskiy institut (Moscow Automechanical Institute). Abstracter's note: complete translation.

Card 2/2

THE RESERVE OF THE PROPERTY OF

VITENBERG, Yu.R.

Geometry of a ram machined by abrasive worms. Izv. vys. ucheb. zav.; prib. no.2:113-118 '59. (MIRA 13:2)

1. Severo-zapadnyy zaochnyy politekhnicheskiy institut. Rekomendovana kafedroy tekhnologii mashinostroyeniya. (Gear-cutting machines)

VITENBERG, Yu. R., CAND TECH Sci, INVESTIGATION OF SMALL-MODULE GEAR-CUTTING INSTRUMENTS. LENINGRAD, 1960. (MIN OF HIGHER AND SEC SPEC ED RSFSR. LENINGRAD INSTAPREC MECH AND OPTICS). (KL, 2-61, 207).

-120-

VITENBERG, Yu.R.

是这些是新**的种型自身。**如此外外的批准的EHF22的E对于2020的现代的EHF22是是是是是是是是是是是是一个是是是是

Investigating gear cutters having a nonlinear relationship between the displacement of the initial contoru and the magnitude of the cut-off layer. Izv.vys.ucheb.zav.; prib. 5 no.6:123-129 62. (MIRA 15:12)

1. Severo-zapadnyy zaochnyy politekhnicheskiy institut. Rekomendovana kafedroy tekhnologii mashinostroyeniya. (Gear cutting)

VITENBERG, Yuriy Ruvimovich; FIRUN, N.B., red.; ALABYSHEVA, N.A., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Grinding gear teeth with an abrasive worm] Zuboshlifovanie abrazivnym cherviakom. Leningrad, 1963. 25 p. (Leningradskii dom nauchno-tekhnicheskci propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.13) (MIRA 17:1)

(MIRA 12:12)

VITENBERG, Yu.R. Irregularities in profiles, their calculation and relationship with parameters of gear teeth slotting. Izv.vys.ucheb.

我们是这种的,我们就是我们的人,我们就是这个人的人,这个人,这个人的人,我们也不是一个人的人,不是一个人的人,不是一个人,这个人,这些人,我们就是这一个人的人的

zav.; prib. no.6:66-71 '58.

1. Leningradskiy zaochnyy politekhnicheskiy institut. (Gear cutting)

TO THE PHONE STREET CALLED STREET STREET STREET

IOSKUTOV, Vasiliy Vasil'yevich; KUVSHINSKIY, V.V., kandidat tekhnicheskikh nauk, retsenzent; VITENBERG, Yu.R., inzhener, retsenzent; IL'HITSKIY, I.I., kandidat tekhnicheskikh nauk, redaktor; SARAFANNIKOVA, G.A., tekhnicheskiy redaktor

[Gear-cutting machines] Zuboresnye stanki. Moskva, Gos. nauchnotekhn.izd-vo mashinostroit. lit-ry, 1957. 73 p. (Nauchno-populiarnaia biblioteka rabochego stanochnika, nc.26) (MIRA 10:8) (Gear-cutting machines)

TONGER BURNER BEREICH B

SOBOLEV, N.P.[deceased]; VITENBERG, Yu.R.; SHAVLYUGA, N.I., kand. tekhn. nauk, retsenzent; FIRUN, N.B., kand. tekhn. nauk, red.; CHFAS, M.A., red.izd-va; VARKOVETSKAYA, A.I., red.izd-va; BARDINA, A.A, tekhn. red.

[Gear-cutting machines and tools used in the instrument industry] Zuboobrabatyvaiushchie stanki i instrumenty v priborostroenii. Moskva, Mashgiz, 1963. 306 p. (MIRA 16:10)

(Instrument industry) (Gear-cutting machines)

VITENBURG, V.L.; DRUZDIK, B.M.

Cold breekirg of bars. Kuz.-ahtam.proizv. 1 no.3:42-44
My '59. (Mira 12:10)

(Hydraulic presses)

VITENBERGS, Guntis; GRANTS, Elmars; ROZENBERGA, R., red.; LEMBERGA, A., red.;

[Is the incidence of cancer increasing?] Vai saslimstiba ar vezi klust biezaka? Riga, LPSR Zinatnu akademijas izdevnieciba, 1961. 42 p. (MIRA 15:2)

Eur(d)/T IJP(c)

ACCESSION NR: AR5004811

S/0044/64/000/011/B120/B120

3

SOURCE: Ref. ob. Matematika, Apa Schala

AUTHORS: Viten'ko I V - Kostovs'kyy, C. M. ...

TITLE: Generalized transformation formulas in the methods of Lobachevskiy-Greffe and Lemer

CITED SOURCE: Sb. Teor. i prykl. matem. Vyp. 2. L'viv, L'vivs'k. un-t, 1963, 31-35

TOPIC TAGS: Laurent series, transformation formula

TRANSLATION: The authors derive formulas for the calculation of the coefficients of Laurent-series expansion of the functions

$$f_k(z) = \prod_{l=0}^{k-1} \left(\omega_l^{(k)} z^{kl}\right) = \sum_{l=-\infty}^{\infty} a^{kl} z^{l}.$$

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	e de la companya de l
	tem (
	$=\sum_{\ell=-\infty}^{\infty}b_{\ell}^{(k)}z^{\ell}.$
	where extends the second of th
	$R_{\alpha}(z)$ and $z \in (z^{-1} + z)$ and $z \in (z^{-1} + z)$
	in terms of the coeff. Laste than the Cond Laurent series
;	$I(z) = \sum_{l=-\infty}^{\infty} a_l z^l$
•	and the auxiliary serves
·	
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ACCESSION NR: AR5004811

$$\sigma(z) = \sum_{l=-\infty}^{\infty} b_l z^l$$

The auxiliary series v(z) is chosen such that f(z) and v(z) have a common convergence ring. The particular tase when $v(z)=z^{\frac{1}{k}}$ (f -arbitrary integer) and

$$f(z) = \sum_{l=0}^{\infty} a_l z^l, \ a_n \neq 0.$$

is considered separately. N. Lyashchenko.

SUB CODE: MA

ENCL: 00

Card 3/

VITEN'KO, 1.V.; KOSTOVSKIY, A.N.

Division and factorization of Laurent series. Bokl. AN SSSR 162 no.1: 15-18 My '65. (MIRA 18:5)

1. L'vovskiy gosudarstvennyy universitet im. Iv.Franko. Submitted November 20, 1964.

VITEH'KO, I.V.; KOSTOVSKIY, A.N.

Determining the principal indices of Laurent series. Dokl. AN SSSR 155 no. 4:732-734 Ap '64. (MIRA 17:5)

1. Li rovskiy gosudarstvennyy universitet im. Ivana Franko. Predstavleno akademikom A.A.Dorodnitsynym.

VITENKO, Vadim Aleksandrovich; POLYAK, Revera Yakovlevna; SEGAL', Z.G., vedushchiy red.

[Northern Lugansk key well (Lugansk Province)] Severo-Luganskaia opornaia skvazhina (Luganskaia oblast'). Leningrad, Gostoptekhizdat, 1963. 135 p. (Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.223). (MIRA 17:4)

POLYAK, R.Ya.; VITENKO, V.A.

Mineralogical associations in Permian and Triassic sediments of the Chernigov salient. Trudy UkrNIGRI no.1:122-124 159.

(Ukraine--Mineralogy)

VITENKO, V.A [Vitenko, V.O.]; POCREBNYAK, V.A [Fohrebniak, V.O.]; POLYAK, R.Ya.

Sediments of the Moscovian stage of the north Lugansk key well.

Geol.zhur. 21 no.3:87-93 *61. (MIRA 14:7)

1. UkrNDGRI.

(Novoaydar District—Geology, Stratigraphic)

3/169/60/000/006/002/021 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 29, # 5751

AUTHOR:

Vitenko, V. A.

TITLE:

The Main Feature of the Geologic Structure of the Chernigov

Gravitational Maximum Region

7

PERIODICAL: Tr. Vses. n.-i. geologorazved. neft. in-t, 1958, No. 12, pp. 140-152

TEXT: The geophysical research in the last years and deep drilling eludicated the geologic feature of the Chernigov region having a gravitational maximum. A volcanic-sedimentary stratum of 1,160 m thickness occurs above crystalline Pre-Cambrian rocks detected at the 2,747-m depth; this stratum pertains to the Middle and Upper Devonian. The overlying deposits occur above the Devonian system. Magnetic anomalies associated with the gravitation maximum region and reaching 600%, and, partly, the maximum itself, are caused by the volcanic-sedimentary stratum having the maximum magnetic intensity in the region. The principal gravitation effect is appearently caused by the nonuniform crystalline-base structure and its relief. The author assumes that the Chernigov-maximum-region represents a protrusion of the relatively shallow crystalline-base

Card 1/2

S/169/60/000/006/002/021 A005/A001

The Main Feature of the Geologic Structure of the Chernigov Gravitational Maximum Region

limited in East and West by breaks. This protrusion acted the part of a dam, which hampered the connection between the Dnepr-Donets depression central part and the Pripyat' graben. However, the Pripyat' graben was directly connected with the Dnepr-Donets depression in the course of long periods and appears probably to be one of its tectonic elements.

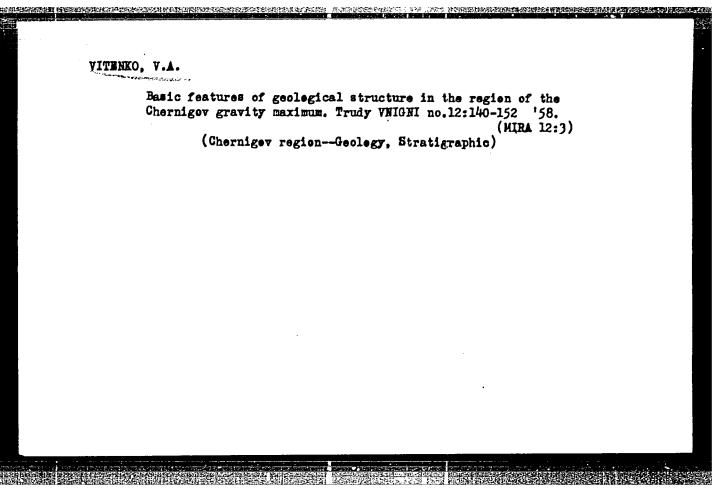


T. N. Fedotova

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

VITENKO, V.A.			
(Chernigov Provin	rudy VNIGNI no.24:5-52 (MIE ce-Petroleum geology) -Gas, Natural-Geology)	¥ 13:7)	
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204 DEST BEFORE EXPLICATION TO THE PROPERTY OF THE PROPERTY OF

VITENKO, V.A.; POLYAK, R.Ya.

是是用**结合的工作。**在1970年7月2日间在1970年代的国际企业是由600年代的现在分词是不是2014年7月2日代的工作的。

Lower Carboniferous sediments of the region of the North-Luganek key well. Trudy UkrNIGRI no.5:49-63 163.

Lower-Triassic sediments of the region of the North-Lugansk key well. Ibid.:64-67 (MIRA 18:3)

BARANOV, I.G.; VITENKO, Y.A.; ZAV'YALOV, V.M.; MUROMTSEV, A.S.

Possible reserves of oil and gas in the Dnieper-Donets Lowland, Geol. nefti i gaza 5 no.7:17-19 J1 61. (MIRA 14:9)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut.

(Dnieper-Donets Lowland--Petroleum geology) (Dnieper-Donets Lowland--Gas, Natural--Geology)

BAUBINIENE, A. doc.; JANKEVICIUTE, J., doc.; VITENSTEINAS, G., doc.; Clinico-anatomical aspects in the diagnosis of myocardial infarction. Sveik. apsaug. 9 no.1:10-15 Ja*64.

1. Kauno Valst. medicinos institutas. Rektorius: prof. Z.Januskevicius.

¥

VITENSHTEYNAS, G.A. (Kaunas)

Some peculiarities of the effect of atropine on the heart. Klin.med. 35 no.5:48-50 My '57. (MIRA 10:8)

1. Iz gospital'noy terapevticheskoy kliniki (zav. kafedroy - dotsent Z.I. Yanuchkyavichus) Kaunasskogo meditsinskogo instituta (ATROPINE, eff.

on heart funct., ECG)
(ELECTROCARDIOGRAPHY, eff. of drugs on atropine)

LASHAS, A.V.; VITENSHTEYNAS, G.A.	
Evaluating electric ballistocardiographic methods. Med.prom.12	
no.3:27-33 Mr '58. (MIRA 11:4)	
1. Kaunasskiy politekhnicheskiy institut i Kaunasskiy gosudarstvennyy meditsinskiy institut. (BALLISTOCARDIOGRAPHY)	
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•	

USSR / Human and Animal Physiology. Blood Circulation. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41285.

Author : Januskevicius, Z.; Vitenstelnas, G.

Inst : Not Given.

Title : Ballistocardiography and Its Clinical Significance.

Orig Pub: Sveikatos aspauga, 1957, No 6, 30-37.

Abstract: No Abstract.

Card 1/1

60

JANUSKEVICIUS, Z.; VITENSTEINAS, G.; SUMINAS, A., red.; VYSOMIRSKIS, C., tekhn. red.

[Practical electrocardiography] Praktine elektrokardiografija. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1962. 134 p. (MIRA 16:5)

(ELECTROCARDIOGRAPHY)

CIA-RDP86-00513R001860120004-9 "APPROVED FOR RELEASE: 09/01/2001

17(1,7) AUTHOR:

Vitenshteynas, G.A.

TITLE:

Some Observations on the Article by R.M. Bayevskiy "Ballistocardiography and the Possibility of Using

SOV/177-58-3-9/29

It in Military Medicine"

PERIODICAL:

Voyenno-Meditsinskiy Zhurnal, 1958, Nr 3, pp 41-42

(USSR)

ABSTRACT:

The article by R.M. Bayevskiy (Military Medical Journal Nr 5, 1956) touches on the very topical problem of the wide-spread introduction into practice of the methodology of direct ballistocardiography. This methodology is undoubtedly valuable because it supplements our diagnostic potential. Turning to the registration and analysis of ballistocardiography, it should be recalled that fatigue of a patient, a full stomach, or trembing of the extremities, table or floor may produce artefacts which complicate correct analysis of the ballistocardiogram. Therefore it is better to take the ballistocardiogram before the patient has eaten, after 15-30 minutes' rest, on a convenient

Card 1/3

Some Observations on the Article by R.M. Bayevskiy "Ballistocardiography and the Possibility of Using it in Military Medicine"

table, in a warm room, etc. It must be assumed that the method proposed by Bayevskiy of taking the ballicardiogram in the short period of 1 minute without giving the patient rest may lead to inaccurate recordings and may affect the artefacts. The expediency of recording the ballicardiogram without removing heavy boots from the patient is also questionable. To save time the author recommends taking ballistocardiograms without electrocardiograms. However, when saving the time needed for attaching electrodes to the extremities, the author will be unable to determine the distances RI, RJ and RK to which he attributes diagnostic significance. The simplified method proposed by Bayevskiy for taking ballistocardiograms, which stems from his desire to save the maximum amount of time, does not give a sufficiently full and accurate record and may mislead doctors and reduce the value of the method of ballistocardiography itself. The ballistocardiograph developed by Bayevskiy essentially differs

Card 2/3

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Some Observations on the Article by R.M. Bayevskiy "Ballistocardiography and the Possibility of Using it in Military Medicine"

little from the apparatus recommended by Academician V.V. Parin, V. Dok and Mandelbaum. Their apparatus is also portable, simple, and the data are recorded by means of an electrocardiograph. The support proposed by the author, with its right angles on which the feet are laid, seems to us inconvenient because under the force of gravity the tissue of the extremities will be pressed against the angles of the support, which may cause an involuntary contraction of the muscles. In our opinion, the leg should be supported by a well-stuffed oilcloth cylinder. In practice well-known and well-tested apparatus and methods should be used, while new apparatus can only be proposed for widespread use after thorough testing.

Card 3/3

YANUSHKEVICHNUS, Z.I. [Januškevičius, Z.I.], prof.; VITANSHTEYNAS, G.A. [Vitensteinas, G.A.]

Clinical significance and classification of ballistocardiograms.

Terap.arkh. 31 no.9:31-36 S 159. (MIRA 12:11)

1. Iz kafedry gospital noy terapii (zav. - prof. Z.I. Yanushkevichus) Kaunasskogo meditsinskogo instituta. (BALLISTOCARDIOGRAPHY)

YANUSHKYAVICHUS, Z.I., prof. [Januškevičus, Z.I.]; YITENSHTEYNAS, G.A.

[Yitenšteinas, G.A.]; MITSKIS, A.M. [Mickis, A.M.], kandmed.nauk
(Kaunas)

A case of so-called visceral epilepsy simulating acute abdomen.

Klin.med. 37 no.9:146-147 S '59. (MIRA 12:12)

1. Iz kafedry gospital'noy terapii (zav. - prof. Z.I. Yanushkyavichus)
i kabinota elektroentsefalografii (zav. - dotsent A.M. Mitskis) Kaunasskogo meditsinskogo instituta.

(ABDOMEN, ACUTE diagnosis)

(KPILEPSY, pathology)

2000年1000年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年11日,1950年1

VITENSHTEYNAS, G. A., and YANUSHKEVICTUS, Z. I. (Dr.)

"Concerning Clinical Significance and Classification of Ballistocardiography," reports submitted at Fifth Internation Congress of Medicine, (Internal). Philadelphia, Pa., April 24-26, 1958.

3rd Therapy Clinic, Kaunas Medical Inst, Lith SSR Chief - YANUSHK WICHUS Asst - VITERSHTSYNAS, G. A.

 HTEYNAS, G.A. [Vitensteinas, G.A.] (Kaunas) Classification of ballistocardiographic data. Klin.med. 36 no.1:95-98 (NIRA 11:3)
Ja 158.
 Is kafedry gospital'noy terapii (savprof. Z.I.Yanushkyavichyus [Z.I.Januškevičius]) Kaunasskogo meditsiuskogo instituta. (BALLISTOGARDIOGRAPHY classif. of data (Bus)
•

VITENSHTEYNAS, G. A., Cand Med Sci -- (diss) "On the problem of classification and diagnostic value of ballistocardiographic data in coronary sclerosis." Kaunas, 1958. 26 pp (Min of Health Lithuanian SSR, Kaunas State Med Inst), 200 copies (KL, 35-58, 109)

-58-

USSR/Pharmacology and Toxicology. Chalinergies

V-5

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 47202

Author : Vitenshteynas G.A.

Inst : Title : Certain Peculiarities of Atropine Stimulation of the Heart

Orig Pub: Klinich. meditisna, 1957, 35, No 5, 48-50

Abstract: In 50 patients with vegetative disorders of the cardiovascular system, the following changes of EKG. were observed after 1 mg. of atropine was introduced subcutaneously; an

increase or a decrease of the pulse rate, galloping alteration of rhythm, change of the atrioventricular rhythm to sinus rhythm, disappearance of ventricular extrasystoles. In one patient, following the injection of atropine, symptoms of coronary insufficiency developed..-F.G. Sivashinshaya

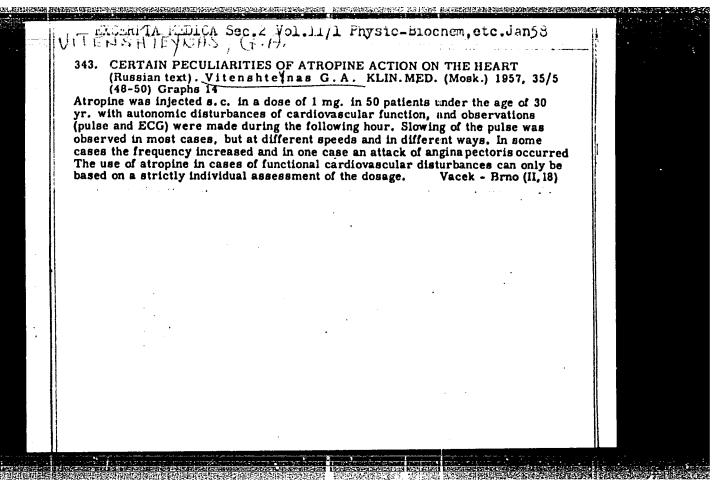
Card : 1/1

VITENSHTEYNAS, T. [Vitensteinas, T.]; KYAULEYKIS, I. [Kiauleikis, I.]

Hemangiectatic hypertrophy (Klippel-Trenaunay-Weber syndrome).

Vest. derm. i ven. 38 no.7:69-72 Jl '64. (MIRA 18:4)

1. Kafedra gospital'noy terapii (zav. - chlen-korrespondent AMN SSSR prof. Z.Yanushkevichus [Januskevicius, Z.] Kaunasskogo meditsinskogo instituta.



ACC NR: AP6032012 SOURCE CODE: UR/0243/66/000/009/0044/0047
AUTHOR: Yanushkevichus, Z. I.; Vitenshteynas, G. A.; Valuzhis, K. K.
ORG: Kaunas Medical Institute, TsNIL (Kaunasskiy meditsinskiy institut, TsNIL)
TITLE: Device for obtaining phonocardiogram envelopes (PKG)
SOURCE: Meditsinskaya promyshlennost' SSSR, no. 9, 1966, 44-47
TOPIC TAGS: phonocardiogram, telemetry, physiology, medical electronics, cardiac physiology, signal envelope, envelope recording, physiological data, Phonocardiography, ELECTRONIC. CIRCUIT, DIAGNOSTIC, INSTRUMENT
ABSTRACT: The frequency characteristics of most pen-writing recorder systems (≤100 cps) present difficulties in recording phonocardiograms (FKG's), whose high-frequency components are subject to distortion. To avoid these difficulties, the authors propose a phase-rotation device with the following characteristics: 1) from the input signal the circuit forms two output signals with a phase difference of 90° for all frequency components; 2) output phase characteristics are in logarithmic dependence on frequency; 3) amplitude-frequency characteristics are straight and parallel to the frequency axis; 4) working frequency ranges are from 20 to 300 and from 60 to 900 cps; 5) the accuracy — of phase retation in 12° main records.
of phase rotation is *2°. This system will record only the geometrical envelope of the PKG signal, which gives full information on the form, amplitude, and duration of sound signals and is sufficient for clinical analysis of PKG's. The idea of using
envelopes in medical electronics is not new, and the drawbacks of envelope recording
Card 1/2 UDC: 616.12-073.43-073.96-71

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for low-frequency processes have been described. The against a conventional full-wave detector with equal smoothing filter. It was found that the detector distance obtained with the proposed instrument. Orig. diagram, and 2 figures.	harge and discharge times in its in not give envelopes as good as
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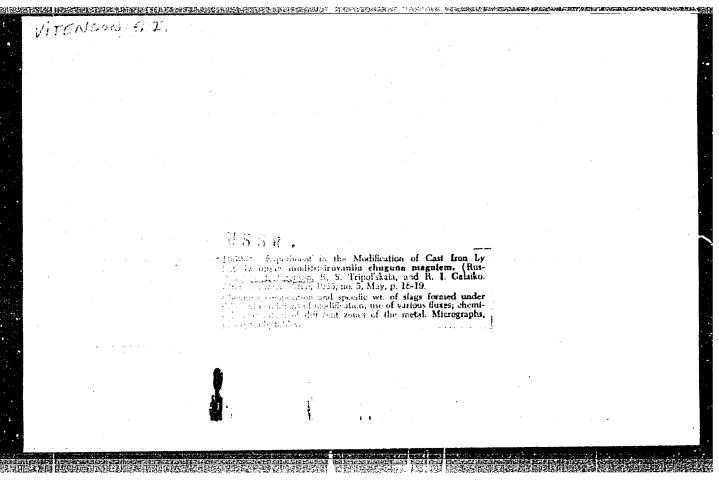
CONTROL OF THE PROPERTY OF THE

REPRESENTED L'ARECURE CARLES RELL'EXCUSAR TRAINMENT DE CENTRE CONTRACTOR DE L'ARECURE DE L'ARECU

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Paradoxal reaction to atropine in heart block. Elin. med. 32
no.10:87 0 154. (MLRA 8:1)

(HMART BLOCK,
    paradoxal reaction to atropine in)

(ATROFINE, effects,
    paradoxal reaction in heart block)
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	(Pipes, Deposits in)				
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VITENSON, A.S.

USSR/Human Physiology - Hervous System.

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Abs Jour

: Referat Zhur - Biologiya, No 16, 1957, 71174

Author

: Vitenson, A.S.

Title

The Study of Nervous Processes in the Course of Subsequent

Visual Reactions After Lack of Sleep,

Orig Pub

: Zh. Vyssh. nerv. Deyat-sti, 1956, 6, No 2, 212-217

Abstract

: The influence of lack of sleep (2-6 hrs sleep) on the subsequent visual reaction (VR) differs depending on the individual variant of VR in sufficient sleep, and reflects the typological peculiarities of the nervous system of the subjects. Four variants are shown in the course of VR: 1) latent period (LP) $\frac{1}{2}$ -2 sec., duration of VR (DRV) 15-25 sec; 2) LP 3-6 sec., DVR 8-15 sec; 3) $\frac{1}{2}$ - $1\frac{1}{2}$ sec, DVR 2-6 sec; 4) LP 3-6 sec., DVR 15-30 sec. In lack of sleep the VR of the 2nd type are the most depressed, a fact which reflects the weak nervous processes with preponderance of inhibition. LP becomes longer, VR shorter (to zero), the strength relations are damaged. A paradoxical phase was

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noted in five tests and appeared at a low level, i.e., the VR decreased at all levels of excitation, but in strong excitants the decrease was larger than in weak ones. In the first and fourth types, representing strong nerve processes with some predominance of excitation, the lack of sleep has less influence on the VR. The strength relations are not always disturbed. The paradoxical phase appears at alow level, i.e., to strong irritants the VR decreases, to weak ones it increases. In the third type, (strongly balanced nerve processes), the influence of lack of sleep on VR is insignificant. Caffeeine (0.05-0,2 gm) in lack of sleep can have on the VR of the 1st and 2nd type a normalizing as well as depressing influence. The last probable arises from incorrect dosage of caffeine. The basis apparent changes in VR in lack of sleep is, according to the author, the lowering of the work capacity of the elements of the visual analyzer.

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(primarily cortical as the most reactive ones). Under these conditions even the moderately strong visual stimuli are sufficient for the development of a limiting defense inhibitions.

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